# Know Your Watershed: Holmes Run • Tripps Run • Cameron Run

# Water Quality Actions, Consequences, and Goals





# contribute to bacterial

## Fertilizers & pesticides

Fertilizers and pesticide used for lawns, agriculture, and gardening may lead to increase in nutrient content and toxic chemicals.



## Construction

Construction sites lead to increased sediments and Total Suspended Solids.



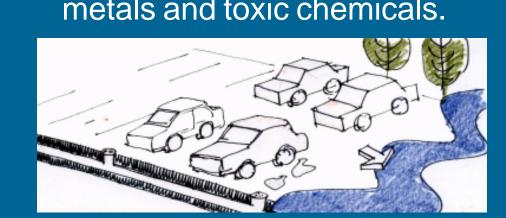
## Trash

Trash dumping leads to increased nutrient content, toxic chemicals, and litter.



## Transportation

Leakage of vehicular fluids, deterioration of vehicle parts including brakes, clutch and tires, automobile emissions and leakage of antifreeze lead to increases in nutrients, heavy metals and toxic chemicals.



### other sources.

clean-up.

Sources of Pollution

Point sources of pollution are those that can be

tracked to a specific point or outfall. It's easier to

confined and often there is someone responsible for

industries, or municipalities. Point source pollution

regulate point source pollution because it is

Point source pollution usually originates in

is controled by waste water treatment plants.

**Nonpoint Source Pollution** 

Nonpoint source pollution (NPS) is pollution which

originates from diverse sources. Nonpoint source

pollution may originate as atmospheric deposition,

leaking automobiles, manure from birds and

animals, pet waste, soil erosion and dustfall,

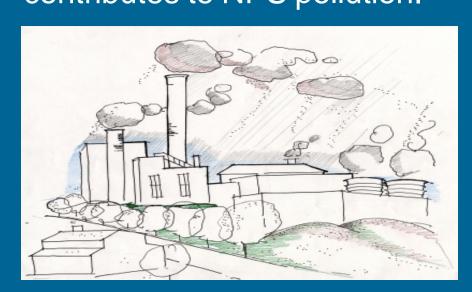
misapplied lawn fertilizers and pesticides, failed

septic systems from home, as well as a host of

**Point Source Pollution** 

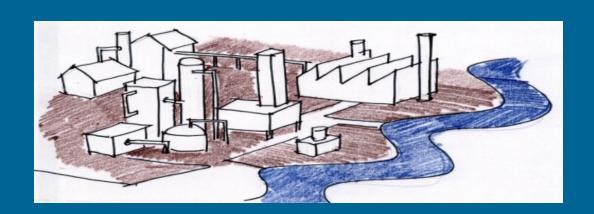
Dustfall on impervious surfaces contributes to NPS pollution.

Industry



## Industry

Industrial sites can cause nutrient and chemical pollution.



## Rural Areas

Failed septic systems cause bacterial problems.



## **Goals: Where We Want To Go!**

These are desirable water quality targets for streams, lakes and coastal waters.

### **Water Quality Indicator Healthy Condition**

5 - 6mg/l \* Dissolved Oxygen Sediment Minimal Phosphorus .05mg/l

as low as possible Nitrogen

60-70°F Temperature

Fecal Coliform <200 colonies/100 ml

pH (acidity) 6.5 to 8.5

## Comments

Fish needs Dissolved Oxygen to live. Minimize turbidity & deposits

Controls excessive aquatic vegetation: algae and water plants

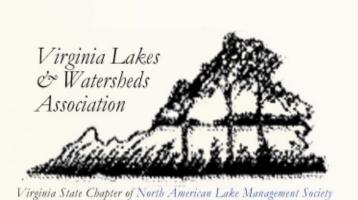
High quality fish (trout) need cold water

Typical state standard

Well buffered natural water

<sup>\*</sup> one milligram per liter (mg/l) is equivalent to one part per million parts.

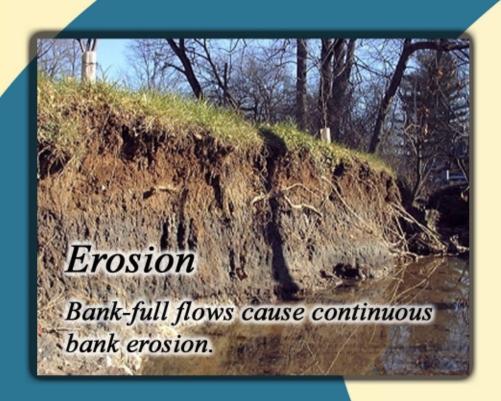






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Absence of Watershed Management Creates a Wide Range of Problems



